INTERAVIA

Aeronautics • Astronautics • Electronics

Contents for Year 1968

MAIN ITEMS

No. 1 General Aviation Twin-engined Utility Aircraft
IATA Plans for the 1970's

No. 2 Concorde Report: Preparations for flight testing
Airframe, engines and equipment survey
Air Forces of the World (Part 6)

No. 3 Twin-engined Business Aircraft
Civil Aviation in Israel
Air Forces of the World (Part 7)

No. 4 The German Aerospace Industry 1968
General Aviation: Single-engined Touring Aircraft

No. 5 BEA Plans for Expansion
The Turin Aerospace Exhibition
Lockheed C-5A Production Report
Air Forces of the World (Part. 8)

No. 6 The 7th German Air Show
Swedish Electronics for the Viggen
Helicopter Development at Sud-Aviation

No. 7 Airport Preparation for the Boeing 747
The VC 400 VTOL Transport
Aerospace Industry Projects in Japan

No. 8 Production Planning for the Lockheed L-1011
Inauguration of Geneva Airport
General Aviation Show Reports

No. 9 Review of the British Aerospace Industry
Germany Chooses the CH-53 Helicopter
American Airlines Introduce Inertial Navigation

No. 10 The Outlook for Air Cargo
The US-Europe Air Transport Gap
Agricultural Aviation
Pillars of World Air Transport

No. 11 Farnborough Show Report
The European Airbus
NASA – Ten years of space research

No. 12 Airline Preparations for the Boeing 747
Engines for General Aviation
Air Forces of the World (Part 9)

CONTENTS FOR YEAR 1968

International Organizations

IATA plans for the 1970's – M. Nibloe: 1/89
Professor Gerhard Höltje welcomes IATA delegates to Munich: 10/1270
Benigno P. Toda Jr. comments on IATA: 10/1270
IATA in Geneva: 10/1287
The Outlook for CECLES/ELDO: 11/1334
IATA 1968 and 1969 – Report of 24th AGM: 12/1507

Civil aviation

a. Aviation Policy

General Aviation: Scope for Expansion: 1/39
IATA Plans for the 1970's – M. Nibloe: 1/89
Promoting General Aviation – Dr. O. F. Jettmar: 4/479
Trans Atlantic Cooperation: 5/571
The US-Europe Airline Industry Gap – C. Stuart: 10/1232

b. Air Transport

Background to a Supersonic Transport (Concorde): 2/149
Nord Aviation and SFENA collaborate on Nord 262 TAPIR 3 certification: 2/175
AIRLORD for automated check-in: 2/178
A notable improvement in medium range navigation: the Doppler VOR – E. Kramar & W. Feyer: 2/180
El Al in the year 5728: 3/325
Arkai, Israel Internal Airlines: 3/328
VFW 614 – A jet aircraft for regional services: 4/438
American Airlines orders the DC-10: 4/503
High-capacity competitors for short/medium haul markets: 5/572
Aeroflot: a brief survey of its operations: 5/584
British European Airways: Largest intra-European air carrier: 5/599
Interview with Sir Anthony Milward: 5/602
The General Manager of Air France, Pierre D. Cot discusses air transport questions: 6/731
The Boeing 747 and airport facilities: 7/853
The airlines and the Boeing 747: 7/856
Airport readiness for the Boeing 747: 7/862
Chicago O'Hare International – The worlds busiest airport: 7/866
Innovations in airport design: 7/893
Lockheed is back in civil market, L-1011 goes into production: 8/949
The new Eastern Airlines: 8/954
Eastern Airlines President talks to Interavia: 8/956
Demonstration of STOL service planned for Northeast Corridor: 8/959
Geneva-Cointrin: An airport for the seventies: 8/971
Orly Airport prepares for the giants: 8/992
Inertial navigation approved for airline use: 9/1096
Air Cargo Growth: 10/1221
Air Cargo Aircraft, terminals and marketing in the 1970's – H. L. Graham: 10/1222
The Ideal Air Cargo Terminal – M. L. Mastracci: 10/1226
The importance of air cargo handling facilities: 10/1230
The US-Europe Airline Industry Gap – C. Stuart: 10/1232
Portrait of an airline – Air France – Looking into the future: 10/1259
Professor Gerhard Höltje welcomes IATA delegates to Munich: 10/1270
Benigno P. Toda Jr. comments on IATA: 10/1270
Pillars of World Air Transport: 10/1271
IATA in Geneva: 10/1287
Lockheed studies future civil passenger helicopters: 11/1334
The A.300 Airbus in perspective: prospects and design features: 11/1429
In readiness for the Boeing 747: 12/1499
The ups and downs of STOL transport: 12/1502

Emery leads as air freight forwarder: 12/1504
IATA 1968 and 1969 – Report of 24th AGM: 12/1507

c. General Aviation

General Aviation: Scope for Expansion: 1/39
Twin-engined aircraft for General Charter Operations: 1/41
The Britten-Norman Islander – A. H. Smith: 1/44
Flying the Dornier Skyservant: 1/47
Water Bombing Forest Fires: 1/50
On the Treasure Trail by Air – A report on the 5th Bahamas Flying Treasure Hunt – M. Deskau: 1/52
New Cessna Models for 1968: 2/200
Aviation Search and Rescue Services – E. Farrugia: 2/212
Good sales prospects for business aircraft: 3/285
Deliveries of American light aircraft: 3/286
Business Jets: 3/287
Exploiting the jet executive aircraft: 3/288
Flight report on Dassault's Fan Jet Falcon – D. H. Chopping: 3/290
Transairco/Air Affaires: Serving European business aviation: 3/293
Technical data on executive aircraft: 3/295
The Grumman Gulfstream 2: 3/297
Propellers, pistons and turbines: 3/300
The Beechcraft King Air: 3/302
Handley Page 137 Jetstream: 3/315
Crop spraying by Chimavir: 3/330
Promoting General Aviation – Dr. O. F. Jettmar: 4/479
Burnside-Ott Aviation Training Center: 4/481
The Piper Aircraft Corporation: 4/483
Table of sports and touring aircraft: 4/487
An ample choice in single-engined aircraft: 4/495
Preview of the 5th International General Aviation Salon at Cannes-Mandelieu: 5/581
Private and business flying: 5/623
Flight report: the Cessna 421 – D. H. Chopping: 5/624
The General Aviation Market (Hanover Air Show): 6/718
Aircraft in Colour (Hanover Air Show): 6/719
Development of the LFU 205 all-plastics experimental aircraft: 6/772
The Beagle Pup: 7/877
General Aviation Show at Cannes: 8/976
The 19th Reading Air Show: 8/978
World Gliding Championships – Heinz A. F. Schmidt: 8/994
The FFA Diamant Sailplane: 8/996
Aircraft in the service of agriculture: 10/1243
Trends in agricultural aviation: 10/1245
Waterless spraying: 10/1246
Agricultural Aircraft: 10/1250
The Grumman Ag-Cat: 10/1250
Power plants for General Aviation: 12/1532
Continental power for general aviation: 12/1524
New Avco Lycoming engines: 12/1526
Spark plugs – yesterday, today and tomorrow – R. L. Anderson: 12/1528
The Allison 250 – A turbine engine for General Aviation: 12/1530
The Garrett AiResearch ATF 3: 12/1532
Power plants for private, business and utility aircraft: 12/1533
Marketing the DH. 125 in North America: 12/1536
Flight report – The Learjet 25 – D. H. Chopping: 12/1547
The Swearingen Merlin 2B – An exceptional business aircraft: 12/1550
The Beechcraft 99 feeder airliner: 12/1552
The Houston 1968 NBAA Show in retrospect: 12/1554
The Cessna Fanjet 500: 12/1557

Service Aviation

British cutback in defence spending: 2/124
Air Forces of the World – Part 6, Warsaw Pact: 2/191
Air Forces of the World – Part 7, Latin America: 3/339
The 50th Anniversary of the Finnish Air Force – L. Piippo: 3/349
The Air Force of the German Democratic Republic: 5/614
Air Forces of the World – Part 8, Non-Warsaw Pact East Bloc: 5/639
European air defence developments – Derek Wood: 7/820
Cost-effectiveness analysis of a ground attack mission: 8/998
A new programme for the Italian Air Force – General D. S. Fanali: 9/1026
British military aviation in the future – Derek Wood: 9/1072
The MRCA 75 programme: 12/1471
Air Forces of the World – Part 9, North America: 12/1565

Aircraft

a. Civil Aircraft

Twin-engined aircraft for general charter operations: 1/41
The Britten-Norman Islander – A. H. Smith: 1/44
Flying the Dornier Skyservant: 1/47
Convair's short-haul project: 1/78
Background to a supersonic transport (Concorde): 2/149
Concorde in Operation: 2/165
Nord Aviation and SFENA collaborate on Nord 262 TAPIR 3 certification: 2/175
Two new short-haul projects from Saab: 2/199
New Cesnna models for 1968: 2/200
Business Jets: 3/287
Flight report on Dassault's Fan Jet Falcon – D. H. Chopping: 3/290
Technical data on executive aircraft: 3/295
The Grumman Gulfstream 2: 3/297
Propellers, pistons and turbines: 3/300
The Beechcraft King Air: 3/302
Handley Page 137 Jetstream: 3/315
Flight report on the Fokker F28 Fellowship – D. H. Chopping: 3/319
VFW 614 – A jet aircraft for regional services: 4/438
American Airlines orders the DC-10: 4/503
High-capacity competitors for short/medium haul markets: 5/572
The Trident 3B: 5/604
Flight report – The Cessna 421 – D. H. Chopping: 5/624
The Sud-Aviation Helicopter Division: 6/765
Development of the LFU 205 all-plastics experimental aircraft: 6/772
The Boeing 747 and airport facilities: 7/853
The Beagle Pup: 7/877
The VC 400 tilt-wing V/STOL transport: 7/882
Lockheed is back in civil market, L-1011 goes into production: 8/949
The SAAB 1071 and 1073 transport projects: 8/981
The FFA Diamant sailplane: 8/996
No end to the Friendship: 9/1140
Agricultural aircraft: 10/1248
The Grumman Ag-Cat: 10/1250
Lockheed studies future civil passenger helicopters: 11/1393
The A-300 Airbus in perspective: prospects and design features: 11/1429
In readiness for the Boeing 747: 12/1499
Marketing the DH. 125 in North America: 12/1536
Flight report – The Learjet 25: 12/1547
The Swearingen Merlin 2B – An exceptional business aircraft: 12/1550
The Beechcraft 99 feeder airliner: 12/1552
The Cessna Fanjet 500: 12/1557

b. Military Aircraft

Nord Aviation and SFENA collaborate on Nord 262 TAPIR 3 certification: 2/175
Extending the life of a military aircraft: The Swiss Air Force DH 112 Venom – J. P. Weibel: 2/216
The Hawker Siddeley Harrier: 3/336
Transall C. 160 military transport – Flight report – D. H. Chopping: 4/442
The Anglo-French Jaguar programme: 4/455
Saab 105XT – A new strike/trainer from Sweden: 4/458
The Dassault Mirage G variable geometry aircraft: 5/575
Roll-out of the Galaxy: 5/578
Swedish electronics in the Viggen: 6/749
Jaguar in detail: 6/752
The Sud-Aviation Helicopter Division: 6/765
Flight report – Saab 105XT – D. H. Chopping: 7/880
Italy's Fiat G.91Y: 8/963
The Lightning in the sixties and seventies – Alec S. Atkin: 9/1074
The Hawker Siddeley S.Mk.2 Buccaneer strike and reconnaissance aircraft: 9/1076
Design specifications and development of the H/CH-53A: 9/1091
Flight testing the C-5A Galaxy: 9/1094
XV-4B Hummingbird: flight trials underway: 11/1399
The MRCA 75 programme: 12/1471

Powerplants

Concorde Powerplant: 2/160
The dominant role of the engine constructor (Hanover Air Show): 6/716
The Garrett TPE 331 turboprop engine: 6/749
Sixth ICAS Congress: Prospects for aircraft noise reduction: 11/1396
Power plants for general aviation: 12/1523
Continental power for general aviation: 12/1524
New Avco Lycoming engines: 12/1526
Sparkplugs–yesterday, today and tomorrow–R. L. Anderson: 12/1528
The Allison 250 – A turbine engine for General Aviation: 12/1530
The Garrett AiResearch ATF3: 12/1532
Power plants for private, business and utility aircraft: 12/1533

Electronics

Marconi S600 series of radars – J. W. Sutherland: 1/73

The cockpit layout of the Concorde: 2/152

Navigation and communications equipment of the Concorde: 2/162

Nord Aviation and SFENA collaborate on Nord 262 TAPIR 3 certification: 2/175

A notable improvement in medium range navigation: the Doppler VOR – E. Kramar and W. Feyer: 2/180

TESLA's RP-2F precision approach radar: 4/461

Scanning-beam all-weather landing guidance system – R. J. Shank: 5/608

Latest developments in aerospace electronics (Hanover Air Show): 6/724

Swedish electronics in the Viggen: 6/749

European air defense developments – Derek Wood: 7/820

Farnborough 1968: around the exhibitors' stands: 9/1087

Inertial navigation approved for airline use: 9/1096

The product range of Microtecnica: 9/1142

Prospects for a European satellite system: 9/1144

Avionics – military and civil (Farnborough 1968): 11/1380

Astronautics

A flying visit to Cape Kennedy: 1/81

Progress in Lunar Exploration: 2/220

Symphonie - The Franco-German communications satellite programme: 4/386

Federal Germany's Five Year Plan: 4/444

Space research and technology: 5/606

ERNO Space Activities: 7/894

The third USA/Europe Eurospace Conference: 8/989

Prospects for a European satellite system: 9/1144

Launcher development in a European space programme: 9/1146

Space news in brief: 9/1147

The outlook for CECLES/ELDO: 11/1334

Ten years of NASA – Donald R. Morris: 11/1401

The most important NASA centres: 11/1404

TRW's contribution to the American space programme – A. K. Thiel: 11/1405

The Soviet Union's latest space success: Zond 5 – to the Moon and back: 11/1408

Space Log: 11/1409

Ready for Moon? First flight of a manned Apollo spacecraft: 11/1413

USA and USSR space activity reports: 12/1489

Progress towards a European space authority: 12/1489

Non-Electronic Equipment

Materials-Equipment-Techniques: 1/76

Arresting barriers for civil airports: 1/80

Aircraft systems of the Concorde: 2/156

Aviation search and rescue services – E. Farrugia: 2/212

Materials – Equipment – Techniques: 5/611

New in the equipment display (Hanover Air Show): 6/727

Farnborough 1968; around the exhibitors' stands: 9/1087

The product range of Microtecnica: 9/1142

British aircraft equipment 1968 (Farnborough 1968): 11/1376

Airports and Airport Equipment

Arresting barriers for civil airports: 1/80

AIRLORD for automated check-in: 2/178

TESLA's RP-2F precision approach radar: 4/461

Esso Forecast – Trends in aviation fuelling systems: 4/504

The airlines and the Boeing 747: 7/856

Airport readiness for the Boeing 747: 7/862

Chicago O'Hare International – The world's busiest airport: 7/866

Innovations in airport design: 7/893

Geneva – Cointrin: An airport for the seventies: 8/971

Orly Airport prepares for the giants: 8/992

Air cargo aircraft; terminals and marketing in the 1970's – H. L. Graham: 10/1222

The ideal air cargo terminal – M. L. Mastracci: 10/1226

The importance of air cargo handling facilities: 10/1230

Amsterdam Schiphol – An airport designed for growth: 10/1264

Noise problems delay Frankfurt Airport extensions application: 12/1490

Research and Technical

Fatigue testing and the supersonic transport: 1/65

The Douglas all-weather landing programme: 1/69

Structural features of the Concorde: 2/153

Extending the life of a military aircraft: The Swiss Air Force DH 112 Venom – J. P. Weibel: 2/216

Laboratories for environmental testing – P. Ancella: 2/218

Progress in Lunar Exploration: 2/220

Aeronautical engineering at the Technion: 3/330

The Dassault Mirage G variable geometry aircraft: 5/575

Development of the LFU 205 all-plastics experimental aircraft: 6/772

The VC 400 tilt-wing V/STOL transport: 7/882

A new system of wind measurement: 7/896

Aeronautical research facilities in Britain: 9/1066

Launcher development in a European space programme: 9/1146

Waterless spraying: 10/1246

Sixth ICAS Congress: prospects for aircraft noise reduction: 11/1396

XV-4B Hummingbird: flight trials underway: 11/1399

Industry

Good sales prospects for business aircraft: 3/285

Deliveries of American light aircraft: 3/286

Transairco/Air Affaires: Serving European business aviation: 3/293

The Beechcraft King Air: 3/302

Israel Aircraft Industries: 3/329

Progressive trends in the German aircraft industry: 4/431

Federal Germany's Five Year Plan: 4/444

The Anglo-French Jaguar programme: 4/455

The Piper Aircraft Corporation: 4/483

Trans-Atlantic Cooperation: 5/571

The Italian aerospace industry at the Turin Salon: 5/573

Optimism at Hanover. Looking back at the 7th German Air Show: 6/711

The Sud-Aviation Helicopter Division: 6/765

The Japanese aerospace industry today: 7/886

ERNO space activities: 7/894

Lockheed is back in civil market, L-1011 goes into production: 8/949

Turin 1968 – The international Italian aerospace show: 8/960

The British aircraft industry 1968 – Derek Wood: 9/1059

Built in Britain: 9/1067

Design specifications and development of the H/CH-53A: 9/1091

Aerospace activities of the Plessey Group: 9/1111

No end to the Friendship: 9/1140

The product range of Microtechnica: 9/1142

A new spirit at Farnborough: 11/1367

British aircraft equipment 1968 (Farnborough): 11/1376

Avionics – military and civil (Farnborough) 1968: 11/1380

TRW's contribution to the American space programme – A. K. Thiel: 11/1405

The MRCA 75 programme: 12/1471

The 1968 Tokyo Aerospace Show: 12/1573

Exhibitions, Congresses, Meetings

On the Treasure Trail – By Air. A report on the 5th Bahamas Flying Treasure Hunt – M. Deskau: 1/52

The Italian aerospace industry at the Turin Salon: 5/573

Preview of the 5th International General Aviation Salon at Cannes-Mandelieu: 5/581

Optimism at Hanover. Looking back at the 7th German Air Show: 6/711

Turin 1968 – The international Italian aerospace show: 8/960

General Aviation Show at Cannes: 8/976

The 19th Reading Air Show: 8/978

The third USA/Europe Eurospace Conference: 8/989

World Gliding Championships – Heinz A. F. Schmidt: 8/994

Farnborough 1968: around the exhibitors' stands: 9/1087

Professor Gerhard Höltje welcomes IATA delegates to Munich: 10/1270

Benigno P. Toda, Jr. comments on IATA: 10/1270

A new spirit at Farnborough: 11/1367

British aircraft equipment 1968 (Farnborough): 11/1376

Avionics – military and civil (Farnborough 1968): 11/1380

Sixth ICAS Congress: prospects for aircraft noise reduction: 11/1396

Papers presented at the sixth ICAS Congress: 11/1437

Progress towards a European Space Authority: 12/1489

IATA 1968 and 1969 – Report of 24th AGM: 12/1507

The Houston 1968 NBAA Show in retrospect: 12/1554

The 1968 Tokyo Aerospace Show: 12/1573

Miscellaneous

Interavia Air Letter Reports . . . 1/19 – 2/121 – 3/249 – 4/381 – 5/543 – 6/679 – 7/817 – 8/921 – 9/1023 – 10/1185 – 11/1331 – 12/1469

Viewpoint: 1/22 – 3/252 – 4/385 – 5/546 – 6/682 – 8/924 – 10/1188
What's in the Air?: 1/85 – 2/202 – 3/331 – 4/498 – 5/626 – 6/776 – 7/889 – 8/982 – 9/1114 – 10/1289 – 11/1432 – 12/1558
Books received: 4/389
Esso Forecast – Trends in aviation fuelling systems: 4/504
A new system of wind measurement: 7/896
Built in Britain: 9/1067
Prospects for the Hovercraft: 9/1100
Book Reviews: 11/1437

Tables

Deliveries of American light aircraft: 3/286
Technical data on executive aircraft: 3/295
Table of sports and touring aircraft: 4/487
The airlines and the Boeing 747: 7/856
Airport readiness for the Boeing 747: 7/862
Pillars of World Air Transport: 10/1271
Ten years of NASA – Donald R. Morris: 11/1401
Space Log: 11/1409

AUTHORS

Ancelle P. – Laboratories for environmental testing: 2/218

Anderson R. L. – Spark plugs – yesterday, today and tomorrow: 12/1528

Atkin A. S. – The Lightning in the sixties and seventies: 9/1074

Chopping D. H. – Nord Aviation and SFENA collaborate on Nord 262 TAPIR 3 certification: 2/175
Flight report – Dassault's Fan Jet Falcon: 3/290
Flight report – Fokker F.28 Fellowship: 3/319
Flight report – Transall C.160 military transport: 4/442
Flight report – Cessna 421: 5/624
Flight report – Saab 105 XT: 7/880
Flight report – Learjet 25: 12/1547

Deskau M. – On the treasure trail – by air. A report on the 5th Bahamas Flying Treasure Hunt: 1/52

Fanali D. S. – A new programme for the Italian Air Force: 9/1026

Farrugia E. – Aviation search and rescue services: 2/212

Feyer W. & Kramar E. – A notable improvement in medium range navigation: the Doppler VOR: 2/180

Graham H. L. – Air cargo aircraft, terminals and marketing in the 1970s: 10/1222

Jettmar O. F. – Promoting General Aviation: 4/479

Kish G. – Aeroflot: a brief survey of its operations: 5/584

Kramar E. & Feyer W. – A notable improvement in medium range navigation: the Doppler VOR: 2/180

Mastracci M. L. – The ideal air cargo terminal: 10/1226

Matys J. – TESLA RP-2F precision approach radar: 4/461

Morris D. R. – Ten years of NASA: 11/1401

Nibloe M. – IATA plans for the 1970s: 1/89

Piipo L. – The 50th anniversary of the Finnish Air Force: 3/349

Schmidt H. A. F. – World Gliding Championships: 8/994

Shank R. J. – Scanning-beam all-weather landing guidance system: 5/608

Smith A. H. – The Britten Norman Islander: 1/44
The Beagle Pup: 7/877

Stuart C. – The US-Europe airline industry gap: 10/1232

Sutherland J. W. – Marconi S 600 series of radars: 1/73

Thiel A. K. – TRW's contribution to the American space programme: 11/1405

Weibel J. P. – Extending the life of a military aircraft: the Swiss Air Force DH 112 Venom: 2/216

Wood D. – European air defence developments: 7/820
The British aircraft industry 1968: 9/1059
British military aviation in the future: 9/1072